

No. 10

5476 -

5518

Dredge } No. 5476 Date, June 24, 1909
Hydros }
Sdg. Mch. Lucas Reel L Shot } 35 lbs.
Lead }

Turns Cor'n Depth 270 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample

Character of Bottom fine S.

Thermom. { Make N. L. Cor'n { Instr. 5.7
No. 108015 Stem.

Bottom Reading 49° Cor'd Temp. 48.3

Temp. Surf. { 83° Time 10:55 Air { 84°
83° Time 11:30 84.0

Density: Surf. fms.

Wind: Direction Variable Force 3

Baromet. 29.87 Amt. of Clouds 6 State of Sea 5

Weather h. c. g.

Direction and Force of Current { Surface
Bottom

Tide

General Locality Pacific Ocean

Bungay Luzon 11.61°N San Bernardino
Position 12°56'24"N 125°25'24"E

Chart used: No. 4220 Ed'n

Drift: Direction N 84°W Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz 2 Hong
weights, 1 tail weight, 1 glass floats

Time towing h. 19 m.

Remarks: Pacific Ocean

Deck Officer John W. Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

17 M. Down. Up. 17 M.

A.M. Down. Up. A.M.

10	26	05	10	32	05	0
	27	05		31	20	100
	28	05		30	40	200
10	28	50	10	29	50	270 300
						400
						450
						500
						700
						800
						900
						1000
						1100
						1200
						1300
						1400
						1500
						1600
						1700
						1800
						1900
						2000
						2100
						2200
						2300
						2400
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						2600
						2700
						2800
						2900
						3000
						3100
						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900

10	35	20	11	38	55
	39	05		35	30
	44	00		32	55
	47	05		28	30
	52	20		25	20
10	55	00	-	-	-
11	00	00	-	-	-
11	02	20	11	21	40

63 ft
end of dredge
table

S 37 1/2

S Bernardino St S 37 1/2

13.5 m

✓
Tidegauge } No. 4930 Date, July 27, 1907
Hydrog. }
Sdg. Mch. T N Reel T N Shot 35 lbs.
Lead }
Turns 112 Cor'n - 19 Depth 93 fms.
Sdg. Cup yellow on lead Amt. Bot'm Sample trace
Character of Bottom S.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Pachue Pt, Leyte, S 81° W; Liza Pt, Leyte N. 41° W; N. of Surigao Strait
Position 12° 46' 24" N; 125° 17' 33" E

Chart used: No. 4423 Ed'n June/05

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer M. Barthelme Recorder C. E. Long

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M. Down.			Up.				M. Down.		Up.		M.	
7	00	45	7	05	15	0						
7	01	50	7	02	25	100						
7	02	00	7	02	15	93 200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
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						4700						
						4800						
						4900						

Tacub Pt (Loyte) 881 (W)
16 m

✓
Trawl } No. 4931 Date, July 27, 1909
Hydrog. }

Sdg. Mch. T. N. Reel T. N. Shot Lead lbs.

Turns 75 Cor'n Depth 63 fms.

Sdg. Cup tallow on lead Amt. Bot'm Sample tallow

Character of Bottom csc S, sh.

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air { Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality Manacani Id, high pt. N. 30° E;

Paglabacuan Pt Malbon I. S 79° E

Position 10° 45' 10" N 125° 27' 48" E. N. of Surigao It

Chart used: No. 4423 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer M. Johnson Recorder A. H. Delong

SOUNDING WIRE.						FMS.	DREDGING CABLE.			
9. M. Down.			Up. 9. M.				M. Down.		Up. M.	
5	10	40	8	14	00	0				
5	11	30	8	11	40	68 100				
						200				
						300				
						400				
						500				
						600				
						700				
						800				
						900				
						1000				
						1100				
						1200				
						1300				
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						2500				
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						2700				
						2800				
						2900				
						3000				
						3100				
						3200				
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						3700				
						3800				
						3900				
						4000				
						4100				
						4200				
						4300				
						4400				
						4500				
						4600				
						4700				
						4800				
						4900				

Pagbabacnan Pt (Malhon I)

8796

16.5 m

Pagbabacnan Pt (Malhon I)
 8796
 16.5 m

✓
Dredge } No. 4702 Date, July 29, 1909
Hydrog. }

Sdg. Mch. T.N. Reel T.N. Shot Lead 35 lbs.

Turns 52 Cor'n. — Depth 44 fms.

Sdg. Cup tallow on lead Amt. Bot'm Sample plentiful (4 oz)

Character of Bottom gy. M.

Thermom. { Make — Cor'n { Instr. —
No. — Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { Time — } Air {
Time — }

Density: Surf. — fms. —

Wind: Direction — Force —

Baromet. — Amt. of Clouds — State of Sea —

Weather —

Direction and Force of Current { Surface —
Bottom —

Tide —

General Locality Tachuc Pt Lyte N 79° W; Har-
igatungas Pt Lyte S 9° E. (N of Suriga. Bay)

Position 10° 42' 10" N 125° 10' 36" E

Chart used: No. 4719 Ed'n Aug/07

Drift: Direction — Distance —

Depth of Haul —

Apparatus and Rig used —

Time towing — h. — m.

Remarks: —

Deck Officer Mr. Barthelme Recorder C. B. DeLong

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
Q. M. Down.			Up.		Q. M.		M. Down.		Up.		M.	
10	01	50	10	04	00	0						
10	02	10	10	02	25	100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
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						4700						
						4800						
						4900						

9

Kachuc Pt (Leyte) N 79 W
9.5 m

Dredge } No. 3477 Date, Jan 1, 1907

Sdg. Mch. Reel Shot Lead 35 lbs.

Turns 6 Cor'n Depth 42 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom gy. M.

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 83° Time 10:30 } Air { 87°
83° Time 10:55 }

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. 4717 Ed'n

Drift: Direction Distance

Depth of Haul bottom

Apparatus and Rig used

Time towing h. 2.0 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
22 30	10	25 05	0	12 29	10	12 50
23 23	10	23 25	40 100	12 55	10	13 55 30
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
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			2800			
			2900			
			3000			
			3100			
			3200			
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			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Reduced (1/2) 11 1923

Dredge } No. 5478 Date, Aug 29, 1900

Sdg. Mch. 7 Reel 17.21 Shot Lead 35 lbs.

Turns 62 Cor'n — Depth 57 fms.

Sdg. Cup 100 Amt. Bot'm Sample

Character of Bottom sh.

Thermom. { Make — Cor'n { Instr. —
No. — Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 83° Time 11.40 } Air { 87°
83° Time 12.02 } 87°

Density: Surf. — fms. —

Wind: Direction S.W. Force 2-3

Baromet. 29.3 Amt. of Clouds 4 State of Sea 2

Weather bc.

Direction and Force of Current { Surface —
Bottom —

Tide —

General Locality, 1/2 mi. S. of Cape Cod, Mass.

Position 41° 24' N. 171° 00' W.

Chart used: No. 4423 Ed'n —

Drift: Direction S 74 E Distance 0.7 mi.

Depth of Haul —

Apparatus and Rig used as before

Time towing — h. 11 1/2 m.

Remarks: sh. outside of net.

Deck Officer Recorder

M. W. C. 11-1023

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
A.M. Down.	Up. A.M.		A.M. Down.	Up. A.M.
11 32 10	11 34 45	0	11 27 10	12 02 30
11 32 30	11 33 30	57 100	11 41 20	12 20
		130 200	11 43 45	12 30
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
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		3300		
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		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

Dredge } No. 5479 Date, , 1901

Sdg. Mch. Reel T N Shot Lead 35 lbs.

Turns 74 Cor'n Depth 62 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom gy. M.

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84 Time 1:40 P } Air {

Density: Surf. fms.

Wind: Direction WSW Force 4

Baromet. 29.7 Amt. of Clouds 8 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 10° 17' 00"

Chart used: No. 442 Ed'n

Drift: Direction S. 5-1° E. Distance 8 miles

Depth of Haul Bottom

Apparatus and Rig used Asb

Time towing h. 20 m.

Remarks:

Deck Officer Mr. Johnson Recorder H. W. Cridor.

SOUNDING WIRE.				FMS.	DREDGING CABLE.								
M. Down.	Up.	L.	M.		P. M. Down.	Up.	P.	M.					
1	01	39	1	04	20	0	1	10	30	1	41	00	
1	02	10	1	05	13	74	100	1	16	10	1	36	10
					150	200							
					300								
					400								
					500								
					600								
					700								
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					3200								
					3300								
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71860 N 43 100

✓

Dredge } No. 35 Date, , 19
Hydrom. }
Sdg. Mch. T. H. Reel 8177 lbs.
Lead }
Turns Cor'n Depth fms.
Sdg. Cup Manning Amt. Bot'm Sample Trace
Character of Bottom

Thermom. { Make Cor'n { Instr.
 { No. { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 81.1 Time 2:13 P. } Air {
 { Time 5. } {

Density: Surf. fms.

Wind: Direction Force

Baromet. 24.70 Amt. of Clouds 7 State of Sea S⁰

Weather

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality

Position 10° 45' N 72° 15' W

Chart used: No. 1112 Ed'n

Drift: Direction 1.5 Distance .7

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing h. 1 m.

Remarks:

Deck Officer Recorder 211

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

P. M. Down. Up. P. M.

2 02 30 2 01 30

2 06 30 2 07 30

2 03 15 2 03 20 74 100

2 10 05 2 34 20

150 200

2 12 15 2 32 10

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

N. 47° W.

17.3

Dredge } No. 1172 Date, Jan 1, 1922
Hydrog. }

Sdg. Mch.	Reel	Shot Lead	lbs.
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Turns 23 Cor'n Depth 61 fms.

Sdg. Cup Intl. Bot'm Sample

Character of Bottom S.S.G.

Thermom. $\left\{ \begin{array}{l} \text{Make} \\ \text{No.} \end{array} \right\}$ Cor'n $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right\}$

Bottom Reading Cor'd Temp. "

Temp. Surf.	Time	Air
	Time	

Density: Surf. _____ fms. _____

Wind: Direction SSW Force 3

Baromet.	29.9	Amt. of Clouds	5	State of Sea	—
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Weather

Direction and Force of Current.	{	Surface
		Bottom

Title.....

General Locality St. Paul, near Lathrop

Chas. C. Jones, Jr.

Position $10^{\circ}27'N$ $175^{\circ}17'10".6$

Chart used: No. 4719 Ed'n -

Drift: Direction	Force, lbs.	Distance	Angle
100°	100	100	100
110°	110	110	110
120°	120	120	120
130°	130	130	130
140°	140	140	140
150°	150	150	150
160°	160	160	160
170°	170	170	170
180°	180	180	180
190°	190	190	190
200°	200	200	200
210°	210	210	210
220°	220	220	220
230°	230	230	230
240°	240	240	240
250°	250	250	250
260°	260	260	260
270°	270	270	270
280°	280	280	280
290°	290	290	290
300°	300	300	300
310°	310	310	310
320°	320	320	320
330°	330	330	330
340°	340	340	340
350°	350	350	350
360°	360	360	360

Depth of Haul Bottom

Apparatus and Rig used 7/8 octave

Time towing = 4.25 m.

Remarks:

Deck Officer L. J. O'Donnell Recorder [Signature]
11-1093

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

1 7 4 8 20 10

8 18 25 8 8 45

150

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

1 22 00 8 2 15

25 50 44 00

8 27 40 8 48 00

48 00

48 00

48 00

48 00

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48 00

11-1022

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A.M. Down. Up. A.M.

A.M. Down. Up. A.M.

8 52 20 8 58 00

10 400

9 02 00 9 08 00

11 200

9 11 00 9 17 00

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

16

trawl, 2 cyle, S 12 W.

11 5 202

Tredge } No. 52 Date, Feb 1, 1904
Hyaros }

Sdg. Mch. 77 Reel 2 Shot 2 lbs.
Lead 2

Turns 89 Cor'n Depth 76 fms.

Sdg. Cup	Amt. Bot'm Sample
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
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58	58
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62	62
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66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Character of Bottom Black Cr.

Thermom. $\left\{ \begin{array}{l} \text{Make} \\ \text{No.} \end{array} \right.$ Cor'n $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right.$

Bottom Reading ----- Cor'd Temp. -----

Temp. Surf.	82°	Time	10 a	Air	82°
	62°	Time	10:30		62°

Density: Surf. fms.

Wind: Direction SSW Force 4

<i>Baromet.</i>	29.85	<i>Amt. of Clouds</i>	7	<i>State of Sea</i>	
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Weather 6.1

Direction and Force of Current.	{	Surface
		Bottom

Tide

General Locality - St. Louis, Mo.

Grade I, II, III, IV

Position 10° 27' 25" N - 121° 17' 15" W

Chart used: No. 4214 Ed'n _____

Drift: Direction E Distance 1.2 mi

Depth of Haul _____ Fathoms _____

Apparatus and Rig used *Fig. 2*Time towing ----- h. 2 / 1 m.

Remarks: _____

Deck Officer *A. J. [illegible]* Recorder *[illegible]*

SOUNDING WIRE.

M. DOWN.	UP.	A. M.
11 41 50	9 48 00	

FMS.

68 100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

M. DOWN.	UP.	A. M.
9 57 50	10 21 20	

9 57 50 10 21 20

Dredge } No. 1746 Date, Feb 10, 1907
Hydrog. }
Sdg. Mch. Reel Shot } 2 lbs.
Lead }
Turns 12 Cor'n Depth 76 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom S. brk. sh.

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 83° Time 11:15 Air { 85°

Density: Surf. fms.

Wind: Direction SSW Force 4-5

Baromet. 29.8 Amt. of Clouds 7 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality

Chart used: No. 1746 Ed'n

Position 10° 28' 00" N - 121° 20' 00" W

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used As before

Time towing 30 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
10 22 00	10 20 35		0	10 37 00	10 20 30	
10 32 45	10 22 50		100	10 40 20	10 17 40	
			200	10 43 30	10 14 30	
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
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			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

~~Hydrog.~~ } No. 11 Date, July 30, 1909

Sdg. Mch. T.H. Reel 7 Shot Lead 12 lbs.

Turns 109 Cor'n Depth 90 fms.

Sdg. Cup 70 Amt. Bot'm Sample 70

Character of Bottom gy. s.;

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air { Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 37° 125° 22' 45" E

Chart used: No. 4717 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Jones Recorder

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
M. Down.	Up.	P. M.					M. Down.	Up.	M.
12	00	50	12	04	40	0			
12	01	53	12	02	35	100			
12	02	00	12	02	10	200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
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						1500			
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						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

Dredge } No. ✓ Date, July 10, 1907
Hydrog. }
Sdg. Mch TV Reel TV Shot & Lead 25 lbs.

Turns 125 Cor'n — Depth 103 fms.

Sdg. Cup 1/2 Amt. Bot'm Sample 1/2

Character of Bottom gy. M.

Thermom. { Make — Cor'n { Instr. —
 { No. — { Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 83° Time 12:30 } Air { 85°
 { 82° Time 12:— } { 83°

Density: Surf. — fms. —

Wind: Direction — Force 4

Baromet. 29.82 Amt. of Clouds 5 State of Sea 2-6

Weather 2-6

Direction and Force of Current { Surface —
 { Bottom —

Tide —

General Locality vacasa Pt, Septe, N 82° W

30° 15' 44" E

Position 15 N

Chart used: No. 4719 Ed'n —

Drift: Direction N 40° E Distance —

Depth of Haul bottom

Apparatus and Rig used —

Time towing h. 20 m.

Remarks: —

Deck Officer L. H. Hazard Recorder —

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	Z M.		M. Down.	Up.	Z M.
12 30	12 44 20		0	12 48 30	1	25 30
12 41 20	12 42 10		100	12 52 00	1	24 00
12 41 40	12 42 40	153	200	12 55 30	1	19 30
			250 300	12 57 10	1	17 00
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 1-11-6 Date, _____, 19__
 Hydrog. }
 Sdg. Mch. _____ Reel 11 Shot } _____ lbs.
 Lead }
 Turns _____ Cor'n _____ Depth 585 fms.
 Sdg. Cup _____ Amt. Bot'm Sample _____
 Character of Bottom No sample.
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. 126015 { Stem. _____
 Bottom Reading _____ Cor'd Temp. 52.1
 Temp. Surf. { Time _____ } Air { _____
 { Time _____ }
 Density: Surf. _____ fms. _____
 Wind: Direction _____ Force _____
 Baromet. 29.70 Amt. of Clouds 3 State of Sea _____
 Weather _____
 Direction and Force of Current { Surface _____
 { Bottom _____
 Tide _____
 General Locality _____
 Position 10 2 N 12 W
 Chart used: No. _____ Ed'n _____
 Drift: Direction S. 37 E Distance 3.0
 Depth of Haul Bottom
 Apparatus and Rig used No. 11
 Time towing h. 20 m.

Remarks:

Deck Officer Mr. H.

Recorder

Dredge } No. 5177 Date, May 19, 1900

Sdg. Mch. Lucas Reel Fish Shot } 35 lbs.

Turns 732 Cor'n — Depth 722 fms.

Sdg. Cup Fish Amt. Bot'm Sample 20

Character of Bottom gy. s. l.

Thermom. { Make 71.5 Cor'n { Instr. — 7
No. 1000 Stem.

Bottom Reading Cor'd Temp. 52.5

Temp. Surf. { 84 Time 2:03 } Air { 84
Time 2:03

Density: Surf. fms.

Wind: Direction SW Force 3-4

Baromet. 29.85 Amt. of Clouds 5 State of Sea C

Weather B. c.

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 10° 2' N 121° 33' W

Chart used: No. 4719 Ed'n

Drift: Direction S 6 E Distance 2.5

Depth of Haul Bottom

Apparatus and Rig used

Time towing — h. 3 m.

Remarks:

Deck Officer H. H. Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

P M. Down. Up. M.

M. Down. Up. M.

1 04 00 1 18 10
 04 55 15 20
 05 50 16 40
 06 45 15 55
 07 35 15 15
 08 35 14 30
 09 35 13 45
 10 35 12 55
 11 35 12 10

0
 100
 200
 300
 400
 500
 600
 700
 800

1 22 30 3 10 00
 25 50 06 55
 28 55 03 45
 32 15 3 00 30
 35 05 57 15
 37 50 53 55
 40 20 50 20
 42 50 47 00

900
 1000
 1100
 1200
 1300
 1400

49 30 50 25
 52 45 36 50
 55 45 33 20
 57 30 29 45
 2 05 50 2 15 5

1500
 1600
 1700
 1800

1900
 2000
 2100
 2200

2300
 2400
 2500
 2600

2700
 2800
 2900
 3000

3100
 3200
 3300
 3400

3500
 3600
 3700
 3800

3900
 4000
 4100
 4200

4300
 4400
 4500
 4600

4700
 4800
 4900

don't 8506

don't 8506 (Time) 8506

11.7

Dredge } No. 7 Date, July 27, 1907

Sdg. Mch. Reel Shot 35 lbs.

Turns Cor'n Depth fms.

Sdg. Cup Sigbee Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. 108065 Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Remarks: Stray line Time towing h. m.

60 fms. haul

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

3	27	35				0
3	25	15	3	28	50	62 100
						200
						300
						400
						500
						600
						700
						800
						900
						1000
						1100
						1200
						1300
						1400
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						1900
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						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900

Dredge } No. 2211 Date, Dec 10, 1902

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: Strong breeze from S.W. when at anchor, but it was very light.

Deck Officer Mr. [Signature] Recorder [Signature]

SOUNDING WIRE.					FMS.	DREDGING CABLE.		
M. Down.	Up.	P.	M.			M. Down.	Up.	M.
3	37	20	3		0			
2	6	25	3	29 00	92 100			
					200			
					300			
					400			
					500			
					600			
					700			
					800			
					900			
					1000			
					1100			
					1200			
					1300			
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					4200			
					4300			
					4400			
					4500			
					4600			
					4700			
					4800			
					4900			

Dredge } No. 772 Date, July 31, 190
 Hydrog. }
 Sdg. Mch. _____ Reel Li Shot 35 lbs. Lead
 Turns 772 Cor'n _____ Depth 772 fms.
 Sdg. Cup Sigsbee Amt. Bot'm Sample 2 ounce
 Character of Bottom _____
 Thermom. { Make 75.3 Cor'n { Instr. -1.7
 { No. 108015 { Stem. _____
 Bottom Reading 53 Cor'd Temp. 52.3
 Temp. Surf. { Time _____ Air {
 { _____ Time _____
 Density: Surf. _____ fms. _____
 Wind: Direction SE Force 2
 Baromet. 29.82 Amt. of Clouds 1 State of Sea _____
 Weather _____
 Direction and Force { Surface _____
 of Current. { Bottom _____
 Tide _____

General Locality _____
 Position 10° 00' 00" N; 125° 06' 45" E
 Chart used: No. 4719 Ed'n _____
 Drift: Direction S 43° E Distance 3.5 miles
 Depth of Haul bottom
 Apparatus and Rig used _____

 Time towing _____ h. 46 m.

Remarks:

Deck Officer Mr. Robinson

Recorder Mr. Robinson

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

3	51	40	4	06	15	0				
	52	25		08	30	100				
	53	25		09	50	200				
	54	15		04	10	300				
	55	10		03	30	400				
	56	10		02	45	500				
	57	15		02	00	600	4	27	00	6 0'4
	58	25				700				
3	59	25	4	00	25	800	4	32	30	5 55 20
						900				
						1000	4	38	50	5 51 20
						1100	4	41	30	5 48 00
						1200	4	44	50	5 44 30
						1300	4	48	15	5 40 50
						1400	4	51	40	5 37 30
						1500				
						1600				
						1700				
						1800				
						1900				
						2000				
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						2800				
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						4100				
						4200				
						4300				
						4400				
						4500				
						4600				
						4700				
						4800				
						4900				

K 57, 20

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel V Shot } _____ lbs.
Lead }
Turns _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 63 Time 7 14 } Air { 54°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction Various Force 1

Baromet. 29.86 Amt. of Clouds 9 State of Sea S.

Weather bc.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Panama Id., N. ex. B., S. ex. C. B.

Position _____ 10° 00'

Chart used: No. 4719 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul 5 fms. with 150 fath. net

Apparatus and Rig used cast net
cast net

at surface
Time towing _____ h. _____ m.

Remarks:

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

0

100

110 200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

7 16 30 7 40 30

7 16 30 7 40 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

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7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

7 21 10 7 41 30

✓
Dredge } No. _____ Date, _____, 19__
Hydrog. }

Sdg. Mch. Lucas Reel 5 Shot }
Leads } lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. = 7
No. _____ Stem. _____

Bottom Reading 53.2 Cor'd Temp. 52.5

Temp. Surf. { 62 Time _____ }
 { 74 Time _____ } Air { _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds 5 State of Sea 5

Weather _____

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality Off Cape Cod

✓ Position (C) 41° 15' N 71° 11' W

Chart used: No. 4717 Ed'n _____

Drift: Direction S 37 E Distance 0.9

Depth of Haul Bottom

Apparatus and Rig used _____

Time towing _____ h. 11 m.

Remarks: Customs

registered 3³

W. J. J. J. J.

In Apparent & Carried

Deck Officer _____ Recorder H. W. Crider

SOUNDING WIRE.					FMS.	DREDGING CABLE.						
M. Down.		Up.	M.			M. Down.		Up.	M.			
5	01	30	5	18	05	0	5	25	55	7	13	00
5	02	20		17	05	100		30	20		15	40
	03	20		16	25	200		34	00		13	00
	04	15		15	45	300		37	10		10	15
	05	10		15	05	400		40	15		07	30
	06	15		14	25	500		43	25		04	50
	07	25		13	40	600		46	50	7	02	00
						700						
						800						
						900						
						1000						
						1100						
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						2800						
						2900						
						3000						
						3100						
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						4000						
						4100						
						4200						
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						4500						
						4600						
						4700						
						4800						
						4900						

✓
Dredge } No. *111* Date, *June 1, 1907*
Hydrog. }
Sdg. Mch. *Tanner* Reel *L* Shot } *25* lbs.
Head }
Turns *736* Cor'n *-* Depth *736* fms.
Sdg. Cup *Sigsbee* Amt. Bot'm Sample *2 ag. **
Character of Bottom *gy. M. G.*

Thermom. { Make *N.B.* Cor'n { Instr. *-7*
No. *108015* Stem.

Bottom Reading *52* Cor'd Temp. *52.3*

Temp. Surf. { *83°* Time *10:13 A* } Air { *84°*
Time *10:14* } Air { *84°*

Density: Surf. fms.

Wind: Direction *SW* Force *2*

Baromet. *29.9* Amt. of Clouds *1* State of Sea *1*

Weather *bcs*

Direction and Force of Current. { Surface
Bottom

Tide

General Locality *North of Vinal, south of*

W. side of Vinal Id. Montserrat, Cape Verde

Position *24° 00' N. 17° 12' W.*

Chart used: No. *4719* Ed'n *-*

Drift: Direction *SW* Distance *2.7 m.*

Depth of Haul *Bottom*

Apparatus and Rig used *12' beam trawl, 3' net*

2' net, 2' net, 2' net

Time towing *-* h. *31* m.

Remarks: *Bottom sample taken*

100 yds. from ship

Deck Officer. *T. J. B.* Recorder *T. J. B.*

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

8' 18' 5" 8' 31' 50"
 10' 00" 31' 00"
 20' 00" 30' 50"
 30' 00" 30' 40"
 40' 00" 30' 30"
 50' 00" 30' 20"
 60' 00" 30' 10"
 70' 00" 30' 00"
 8' 25' 00" 8' 26' 10" 72'

0
100
200
300
400
500
600
700
800

8' 18' 5" 8' 31' 50"
 10' 00" 31' 00"
 20' 00" 30' 50"
 30' 00" 30' 40"
 40' 00" 30' 30"
 50' 00" 30' 20"
 60' 00" 30' 10"
 70' 00" 30' 00"
 8' 25' 00" 8' 26' 10" 72'

900
1000
1100
1200
1300

10' 00" 10' 00"
 03' 15" 53' 40"
 06' 15" 53' 15"
 08' 15" 53' 00"
 10' 12' 00" 10' 42' 15"

1400
1500
1600
1700
1800
1900
2000
2100
2200

2300
2400

2500
2600
2700
2800

2900
3000
3100
3200

3300
3400
3500
3600

3700
3800
3900
4000

4100
4200
4300
4400

4500
4600
4700
4800

4900

76

Depth

Time

Limit Pt (H)

8-12

21.7

11—1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
12	34	00	12	36	00	0
	34	15				100
	35	30				200
	35	45				300
	37	00				400
	38	15				500
	39	30				600
	41	00				700
12	41	30	12	42	30	800
						900
						1000
						1100
						1200
						1300
						1400
						1500
						1600
						1700
						1800
						1900
						2000
						2100
						2200
						2300
						2400
						2500
						2600
						2700
						2800
						2900
						3000
						3100
						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900

Dredge } No. _____ Date, _____, 19____
Hydrog. }

Sdg. Mch. Lucas Reel 5.0 Shot } 35 lbs.
Leads }

Turns _____ Cor'n _____ Depth 11 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom gy. m.

Thermom. { Make 11 L Cor'n { Instr. -17
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. 52.1

Temp. Surf. { Time _____ } Air {
Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction NE Force 2

Baromet. 29.84 Amt. of Clouds 9 State of Sea S.

Weather _____

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality N. of Mindanao S. I. Jap.

N. side Davao Pt., Mindanao, N 84° W;

Position 9° 04' 00" N - 125° 09' 00" E.

Chart used: No. 4719.03 Ed'n _____

Drift: Direction N 32° W Distance 3.0 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz trawl

3 glass

12' Agassiz trawl

Time towing h. 45¹⁰ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.	Up.	A. M.				M. Down.	Up.	A. M.
1	09	05	18	30	100	6	22	10
	10	15	17	25	200		27	00
	11	20	16	20	300		30	05
	12	20	15	15	400		02	10
1	13				471			
					500			
					600			
					700			
					800			
					900			
					1000			
					1100			
					1200			
					1300			
					1400			
					1500			
					1600			
					1700			
					1800			
					1900			
					2000			
					2100			
					2200			
					2300			
					2400			
					2500			
					2600			
					2700			
					2800			
					2900			
					3000			
					3100			
					3200			
					3300			
					3400			
					3500			
					3600			
					3700			
					3800			
					3900			
					4000			
					4100			
					4200			
					4300			
					4400			
					4500			
					4600			
					4700			
					4800			
					4900			

Washed down, 2500 fms, S 2 E.

Limit 11 (B) 3300

7.5

Dredge } No. 1522 Date, 1900

Sdg. Mch. Reel Shot } lbs.

Turns 678 Cor'n Depth 678 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom gy S

Thermom. { Make N3 Cor'n { Instr. 7
No. 222 Stem.

Bottom Reading 540 Cor'd Temp. 53.3

Temp. Surf. { 30 Time 9:20 Air { 82
22 Time 9:50

Density: Surf. fms.

Wind: Direction Variable Force 1

Baromet. 29.2 Amt. of Clouds 8 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

W. side of ... N. side of ...

Position

Chart used: No. 4712 Ed'n

Drift: Direction N. 5 E Distance 2.2

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. 35 1/2 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. Up. M.

M. Down. Up. ~~M.~~

8	23	10	8	37	35
	24	10		38	35
	25	10		39	35
	26	10		40	35
	27	10		41	35
	28	10		42	35
	29	10		43	35
8	30	10	9	44	35

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

8	28	50	10	25	20
	29	50		26	20
	30	50		27	20
	31	50		28	20
	32	50		29	20
	33	50		30	20
	34	50		31	20
	35	50		32	20
	36	50		33	20
	37	50		34	20
	38	50		35	20
	39	50		36	20
	40	50		37	20
	41	50		38	20
	42	50		39	20
	43	50		40	20
	44	50		41	20
	45	50		42	20
	46	50		43	20
	47	50		44	20
	48	50		45	20
	49	50		46	20
	50	50		47	20
	51	50		48	20
	52	50		49	20
	53	50		50	20
	54	50		51	20
	55	50		52	20
	56	50		53	20
	57	50		54	20
	58	50		55	20
	59	50		56	20
	60	50		57	20
	61	50		58	20
	62	50		59	20
	63	50		60	20
	64	50		61	20
	65	50		62	20
	66	50		63	20
	67	50		64	20
	68	50		65	20
	69	50		66	20
	70	50		67	20
	71	50		68	20
	72	50		69	20
	73	50		70	20
	74	50		71	20
	75	50		72	20
	76	50		73	20
	77	50		74	20
	78	50		75	20
	79	50		76	20
	80	50		77	20
	81	50		78	20
	82	50		79	20
	83	50		80	20
	84	50		81	20
	85	50		82	20
	86	50		83	20
	87	50		84	20
	88	50		85	20
	89	50		86	20
	90	50		87	20
	91	50		88	20
	92	50		89	20
	93	50		90	20
	94	50		91	20
	95	50		92	20
	96	50		93	20
	97	50		94	20
	98	50		95	20
	99	50		96	20
	100	50		97	20
	101	50		98	20
	102	50		99	20
	103	50		100	20
	104	50		101	20
	105	50		102	20
	106	50		103	20
	107	50		104	20
	108	50		105	20
	109	50		106	20
	110	50		107	20
	111	50		108	20
	112	50		109	20
	113	50		110	20
	114	50		111	20
	115	50		112	20
	116	50		113	20
	117	50		114	20
	118	50		115	20
	119	50		116	20
	120	50		117	20
	121	50		118	20
	122	50		119	20
	123	50		120	20
	124	50		121	20
	125	50		122	20
	126	50		123	20
	127	50		124	20
	128	50		125	20
	129	50		126	20
	130	50		127	20
	131	50		128	20
	132	50		129	20
	133	50		130	20
	134	50		131	20
	135	50		132	20
	136	50		133	20
	137	50		134	20
	138	50		135	20
	139	50		136	20
	140	50		137	20
	141	50		138	20
	142	50		139	20
	143	50		140	20
	144	50		141	20
	145	50		142	20
	146	50		143	20
	147	50		144	20
	148	50		145	20
	149	50		146	20
	150	50		147	20
	151	50		148	20
	152	50		149	20
	153	50		150	20
	154	50		151	20
	155	50		152	20
	156	50		153	20
	157	50		154	20
	158	50		155	20
	159	50		156	20
	160	50		157	20
	161	50		158	20
	162	50		159	20
	163	50		160	20
	164	50		161	20
	165	50		162	20
	166	50		163	20
	167	50		164	20
	168	50		165	20
	169	50		166	20
	170	50		167	20
	171	50		168	20
	172	50		169	20
	173	50		170	20
	174	50		171	20
	175	50		172	20
	176	50		173	20
	177	50		174	20
	178	50		175	20
	179	50		176	20
	180	50		177	20
	181	50		178	20
	182	50		179	20
	183	50		180	20
	184	50		181	20
	185	50		182	20
	186	50		183	20
	187	50		184	20
	188	50		185	20
	189	50		186	20
	190	50		187	20
	191	50		188	20
	192	50		189	20
	193	50		190	20
	194	50		191	20
	195	50		192	20
	196	50		193	20
	197	50		194	20
	198	50		195	20
	199	50		196	20
	200	50		197	20
	201	50		198	20
	202	50		199	20
	203	50		200	20
	204	50		201	20
	205	50		202	20
	206	50		203	20
	207	50		204	20
	208	50		205	20
	209	50		206	20
	210	50		207	20
	211	50		208	20
	212	50		209	20
	213	50		210	20
	214	50		211	20
	215	50		212	20
	216	50		213	20
	217	50		214	20
	218	50		215	20
	219	50		216	20
	220	50		217	20
	221	50		218	20
	222	50		219	20
	223	50		220	20
	224	50		221	20
	225	50		222	20
	226	50		223	20
	2				

Dredge } No. 5495 Date, August 2, 1909

Sdg. Mch. Reel Shot Lead 25 lbs.

Turns 976 Cor'n Depth 976 fms.

Sdg. Cup Amt. Bot'm Sample 0.0

Character of Bottom

Thermom. { Make N.Z. Cor'n { Instr. -17
No. 105 Stem.

Bottom Reading Cor'd Temp. 52.3

Temp. Surf. { 83° Time 1:02 } Air {
86 Time 2:45 } 87

Density: Surf. fms.

Wind: Direction West Force 2-3

Baromet. Amt. of Clouds 7 State of Sea S

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position

Chart used: No. 4719 C.S. Ed'n

Drift: Direction Distance 2.7

Depth of Haul bottom

Apparatus and Rig used

1 m. ...

also see ...

Time towing h. 3.5 m.

Remarks: 1. H. oloid #5 ...

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

P.M. Down. Up. P.M.

P.M. Down. Up. P.M.

12 33 23 12 56 05
 34 30 55 05
 35 25 54 10
 36 20 53 10

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

1 00 20 3 26 00
 04 20 21 45
 07 20 18 50
 10 30 15 45

22 00 3 03 25

33 10 51 20

17/1

x

2780

11.7.00

✓
Dredge } No. 511 Date, 1902
Hydrog. }
Sdg. Mch. Lucas Reel 51 Shot 35 lbs.
Turns Cor'n Depth fms.
Sdg. Cup Amt. Bot'm Sample 11 1/2
Character of Bottom

Thermom. { Make N.Z. Cor'n { Instr. -7
 { No. 108015 { Stem.

Bottom Reading 53.0 Cor'd Temp. 52.3

Temp. Surf. { 83° Time 8:38 a. } Air { 80°
 { 82° Time 8:50 a. } { 79°

Density: Surf. fms.

Wind: Direction SW Force 4-5

Baromet. 29.88 Amt. of Clouds 4 State of Sea S

Weather bc

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality N. of Mindanao, E. of Camiguin

Batiquin Id. (mid) 10° 08' 26" N. 124° 57' 00" E.

Position 9° 08' 26" N. 124° 57' 00" E.

Chart used: No. 4719 CS Ed'n -

Drift: Direction SSE Distance 2.5 m.

Depth of Haul Bottom

Apparatus and Rig used As before, except H.S.

Time towing - h. 16 m.

Remarks: 400 lbs. of ...

... 400 lbs. ...

... 400 lbs. ...

... 400 lbs. ...

... 400 lbs. ...

... 400 lbs. ...

Deck Officer Dr. ... Recorder 210. ...

... Johnson ... 11-1023

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
A. M. Down.	Up.	A. M.			A. M. Down.	Up.	A. M.	
7	33	40	7	0	7	35	40	
	33	20		100		36		
	34	20		200		37		
	35	15		300	8	38		
	36	20		400		39		
	37	20		500		40		
	38			600		41		
	39			700		42		
7	40	50	7	800		43		
				900		44		
				1000		45		
				1100		46		
				1200		47		
				1300		48		
				1400		49		
				1500		50		
				1600		51		
				1700		52		
				1800		53		
				1900		54		
				2000		55		
				2100		56		
				2200		57		
				2300		58		
				2400		59		
				2500		60		
				2600		61		
				2700		62		
				2800		63		
				2900		64		
				3000		65		
				3100		66		
				3200		67		
				3300		68		
				3400		69		
				3500		70		
				3600		71		
				3700		72		
				3800		73		
				3900		74		
				4000		75		
				4100		76		
				4200		77		
				4300		78		
				4400		79		
				4500		80		
				4600		81		
				4700		82		
				4800		83		
				4900		84		

33

12. 12

Dredge } No. 5145 Date, Aug 23, 1907

Sdg. Mch. Lucas Reel L Shot } 35 lbs.

Turns 1100 Cor'n - Depth 1100 fms.

Sdg. Cup 1 Simonson Amt. Bot'm Sample 1.50

Character of Bottom 1100

Thermom. { Make N.3. Cor'n { Instr. -1.7
No. 100015 Stem.

Bottom Reading 1100 Cor'd Temp. 52.3

Temp. Surf. { 83° Time 11:00 A. } Air { 80°
110 Time 11:00

Density: Surf. fms.

Wind: Direction N.8W Force 4-5

Baromet. 29.5 Amt. of Clouds 1 State of Sea a

Weather 1100

Direction and Force of Current { Surface
Bottom

Tide

General Locality N. of Mindanao, E. of Cebu

Position 124° 59' 30" E

Chart used: No. 4748 Ed'n

Drift: Direction S 60 E Distance 2.6 m.

Depth of Haul 800 fms.

Apparatus and Rig used 10' 2" net, 1/2" mesh.

Time towing - h. 2 m.

Remarks:

Deck Officer H. L. Recorder (F. J.)

SOUNDING WIRE.

A. M. Down. Up. A. M.

| | | | | | |
|---|----|----|----|----|----|
| 7 | 44 | 15 | 10 | 02 | 15 |
| | 45 | 15 | | 07 | 30 |
| | 46 | 10 | | 01 | 55 |
| | 47 | 00 | | 01 | 10 |
| | 48 | 00 | 10 | 00 | 25 |
| | 49 | 00 | | 59 | 40 |
| | 50 | 05 | | 58 | 50 |
| | 51 | 10 | | 58 | 00 |
| | 52 | 20 | | | |
| | 53 | 30 | | 56 | 15 |
| 9 | 54 | 30 | 9 | 55 | 30 |

FMS.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

A. M. Down. Up. A. M.

| | | | | | |
|----|----|----|----|----|----|
| 10 | 24 | 40 | 11 | 34 | 35 |
| | 28 | 05 | | 52 | 00 |
| | 31 | 05 | | 59 | 00 |
| | 35 | 20 | | 46 | 30 |
| | 39 | 40 | | 42 | 20 |
| | 42 | 45 | | 40 | 05 |
| | 46 | 55 | | 37 | 00 |
| | 49 | 00 | | 34 | 00 |
| | 52 | 10 | | | |
| | 54 | 20 | | 27 | 20 |
| | 57 | 30 | | 23 | 40 |
| 10 | 59 | 00 | 11 | 14 | 30 |

(10 24 40)
10 24 40

Dredge } No. 4423 Date, Aug 3, 1903
Hydrog.

Sdg. Mch. _____ Reel _____ Shot }
Lead } lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time 2:15 } Air { _____
_____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force { Surface _____
of Current. { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. 4717 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. 27 m.

Remarks: _____

Deck Officer _____ Recorder _____

Mr. B. B. Holoway

H. W. C. V.

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-----|----|------|-----------------|-------|-------|
| P. M. Down. | Up. | M. | | P. M. Down. | Up. | P. M. |
| | | | 0 | 2 | 00 45 | 4 09 |
| | | | 100 | | 04 45 | 06 05 |
| | | | 200 | | 07 50 | 03 30 |
| | | | 300 | | 10 40 | 00 40 |
| | | | 400 | | 13 35 | 57 50 |
| | | | 500 | | 16 45 | 54 55 |
| | | | 600 | | 19 30 | 52 00 |
| | | | 700 | | 22 20 | 49 10 |
| | | | 800 | | 25 05 | 46 05 |
| | | | 900 | | 27 55 | 42 10 |
| | | | 1000 | | 30 35 | 40 10 |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. _____ Date, _____, 19____
Hydraulic }

Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead }

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make *NZ* Cor'n { Instr. *- 7*
No. *108615* Stem _____

Bottom Reading *53* Cor'd Temp. *52.3*

Temp. Surf. { Time *6:40 A* { Air {
Time _____

Density: Surf. _____ fms.

Wind: Direction *SSW* Force *Low*

Baromet. *29.89* Amt. of Clouds *2* State of Sea *S*

Weather _____

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul *Bottom*

Apparatus and Rig used *20 lb. net*

Time towing _____ h. *4* m.

Remarks: _____

midwater region - Comythera
begin to dig in.

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

M. Down. Up. M.

| | | | | | | |
|---|----|----|---|----|----|---------|
| 9 | 04 | 10 | 9 | 10 | 50 | 0 |
| | 05 | 15 | | 14 | 50 | 100 |
| | 06 | 20 | | 14 | 05 | 200 |
| | 07 | 20 | | 13 | 20 | 300 |
| | 08 | 20 | | 12 | 35 | 400 |
| | 09 | 20 | | 11 | 50 | 500 |
| 9 | 10 | 00 | 9 | 11 | 00 | 554 600 |
| | | | | | | 700 |
| | | | | | | 800 |
| | | | | | | 900 |
| | | | | | | 1000 |
| | | | | | | 1100 |
| | | | | | | 1200 |
| | | | | | | 1300 |
| | | | | | | 1400 |
| | | | | | | 1500 |
| | | | | | | 1600 |
| | | | | | | 1700 |
| | | | | | | 1800 |
| | | | | | | 1900 |
| | | | | | | 2000 |
| | | | | | | 2100 |
| | | | | | | 2200 |
| | | | | | | 2300 |
| | | | | | | 2400 |
| | | | | | | 2500 |
| | | | | | | 2600 |
| | | | | | | 2700 |
| | | | | | | 2800 |
| | | | | | | 2900 |
| | | | | | | 3000 |
| | | | | | | 3100 |
| | | | | | | 3200 |
| | | | | | | 3300 |
| | | | | | | 3400 |
| | | | | | | 3500 |
| | | | | | | 3600 |
| | | | | | | 3700 |
| | | | | | | 3800 |
| | | | | | | 3900 |
| | | | | | | 4000 |
| | | | | | | 4100 |
| | | | | | | 4200 |
| | | | | | | 4300 |
| | | | | | | 4400 |
| | | | | | | 4500 |
| | | | | | | 4600 |
| | | | | | | 4700 |
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DREDGING CABLE.

M. Down. Up. M.

| | | | | | |
|---|----|----|----|----|----|
| 9 | 19 | 30 | 10 | 24 | 10 |
| | 23 | 30 | | 21 | 20 |
| | 27 | 10 | | 18 | 30 |
| | 30 | 00 | | 15 | 50 |
| | 33 | 25 | | 12 | 55 |
| | 36 | 20 | | 10 | 00 |
| | 39 | 10 | | 07 | 20 |
| | 42 | 35 | | 04 | 00 |
| | 45 | 20 | 10 | 00 | 50 |
| | | | | | |
| | 50 | 15 | 9 | 55 | 00 |

2.5.11

9.7

Dredge } No. 5500 Date, Jan 1, 1907

Sdg. Mch. Lucas Reel Shot / Lead lbs.

Turns Cor'n Depth 267 fms.

Sdg. Cup Amt. Bot'm Sample Trace

Character of Bottom gy. m.

Thermom. { Make N Z Cor'n { Instr. 17
No. Stem.

Bottom Reading 2 Cor'd Temp. 53.5

Temp. Surf. { 84 Time 11:00 Air {
Time 2:00

Density: Surf. fms.

Wind: Direction 4 Force

Baromet. 30.1 Amt. of Clouds 2 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality Off Cape Cod.

Position 41° 15' N 71° 15' W

Chart used: No. 4719 C&G Ed'n V

Drift: Direction S 67 E Distance 1.0 m.

Depth of Haul 200 fms.

Apparatus and Rig used

Time towing h. 7⁵⁵ m.

Remarks:

Deck Officer H. H. Recorder

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-------|-------|------|-----------------|-----|------|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 11 03 15 | 11 | | 0 | 11 10 30 | 1 | 3 10 |
| 04 10 | | | 100 | 18 00 | | |
| 05 05 | | | 200 | 22 10 | | |
| 11 05 50 | 11 01 | 05 26 | 300 | | | |
| | | | 400 | | | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
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Dredge } No. 501. Date, Aug 11, 1907
Hydrog. }
Sdg. Mch. Lucas Reel 2 Shot/Lead 35 lbs.
Turns 214 Cor'n - Depth 214 fms.
Sdg. Cup Lucas Amt. Bot'm Sample Trace
Character of Bottom fine sand

Thermom. { Make N.S. Cor'n { Instr. -17
 { No. 108015 { Stem.
Bottom Reading 214 Cor'd Temp. 54.3
Temp. Surf. { 81 Time 7:15 } Air { 75
 { 71 Time 7:25 } { 64.5

Density: Surf. fms.
Wind: Direction S.W. Force 3
Baromet. 29.8 Amt. of Clouds 2 State of Sea 0
Weather

Direction and Force of Current { Surface
 { Bottom
Tide

General Locality N. of Wilmington, N.C.
Sub. 15 fms. N. of Wilmington, N.C.
Position 35° 27' N. 74° 50' W.
Chart used: No. 474 Ed'n
Drift: Direction S 30 E Distance 1.5
Depth of Haul Bottom
Apparatus and Rig used 12' beam trawl, 2 wing wires, 1 tail wire.

Time towing 20 m.
Remarks: Fine sand, shells, etc.

SOUNDING WIRE.

FMS.

M. Down. Up. M.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

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2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 722 Date, June 19, 1902

Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Leads }

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82° Time 3:27 p } Air { 84°
86° Time 3:50 } 84°

Density: Surf. _____ fms. _____

Wind: Direction N.W. by W Force 3

Baromet. 29.8 Amt. of Clouds 6 State of Sea 5

Weather 2

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality S. E. of ...

Position 8° 17' 37" N - 34° 17' 10" W

Chart used: No. 4719 CS, Ed'n -

Drift: Direction S. 38 E Distance 1.5 mi.

Depth of Haul Bottom

Apparatus and Rig used Sigsbee

Time towing h. 1 m. 30

Remarks: No sdg. taken, only about
some light sh. br. ...

Deck Officer Mr. C. ... Recorder ...

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | | | | |
|----------------|-----|----|------|-----------------|-----|----|---|----|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. | | | |
| | | | 0 | 3 | 04 | 40 | | 03 | 30 |
| | | | 100 | | 08 | 50 | 4 | 00 | 45 |
| | | | 200 | | 12 | 50 | | 58 | 50 |
| | | | 300 | | 17 | 50 | | 55 | 10 |
| | | | 400 | | 22 | 20 | | 52 | 00 |
| | | | 500 | 3 | 28 | 00 | 3 | 48 | 30 |
| | | | 600 | | | | | | |
| | | | 700 | | | | | | |
| | | | 800 | | | | | | |
| | | | 900 | | | | | | |
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Dredge } No. 1111 Date, 4, 1907
Hydrog.

Sdg. Mch. Reel Shot } lbs.
Lead }

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom gy. M.

Thermom. { Make R. G. Cor'n { Instr. - 7
No. 108015 Stem.

Bottom Reading Cor'd Temp. 52.2

Temp. Surf. { 86° Time 4:22 } Air { 83°
85° Time 5:04 }

Density: Surf. fms.

Wind: Direction Various Force 0-1

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

✓ Position

Chart used: No. 4719 C.S. Ed'n.

Drift: Direction Distance

Depth of Haul bottom

Apparatus and Rig used as before.

Time towing h. 20 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

| M. Down. | | | Up. | M. | | | FMS. | M. Down. | | | Up. | M. | | |
|----------|----|----|-----|----|----|-----|------|----------|----|----|-----|----|----|--|
| | | | | | | | | | | | | | | |
| 4 | 08 | 20 | 4 | 13 | 30 | | 0 | 4 | 21 | 10 | 5 | 10 | 10 | |
| | | | | 12 | 35 | | 100 | | 25 | 05 | | 07 | 10 | |
| | | | | | | | 200 | | | | | | | |
| 4 | 10 | 25 | 4 | 11 | 25 | 226 | 300 | | 32 | 30 | 5 | 01 | 35 | |
| | | | | | | | 400 | 4 | 37 | 40 | 4 | 55 | 10 | |
| | | | | | | | 500 | | | | | | | |
| | | | | | | | 600 | | | | | | | |
| | | | | | | | 700 | | | | | | | |
| | | | | | | | 800 | | | | | | | |
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24 hr

5.2 m

Dredge } No. 5555 Date, 10/10/19

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 200 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make N Z Cor'n { Instr. - .7
No. 1 Stem.

Bottom Reading Cor'd Temp. 54.3

Temp. Surf. { Time Air { 54
Time

Density: Surf. fms.

Wind: Direction Various Force 1-2

Baromet. 29.92 Amt. of Clouds 5 State of Sea S

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality N. of ...

Position 21° 8' N. 121° 12' W.

Chart used: No. 1171 Ed'n

Drift: Direction 1.7 Distance 1.7

Depth of Haul Bottom

Apparatus and Rig used

Time towing 20 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

| M. Down. | Up. | M. |
|-------------|-------------|----|
| 5 48 00 | 5 53 25 | |
| 49 05 | 52 20 | |
| 5 50 10 | 51 10 | |

FMS.

0
100
200
300
400
500
600
700
800
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3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

DREDGING CABLE.

M. Down. Up. M.

| | | |
|-------------|----|--|
| 5 57 30 | 6 | |
| 6 01 35 | | |
| 05 10 | 40 | |

11/3

From Anderson & Co W

2 1/2 1/2

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot }
Lead } lbs.
Turns _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 0.3 _____ Time 7:05 A } Air { 78 _____
 { 8.3 _____ { 1 } { 60 _____

Density: Surf. _____ fms. _____

Wind: Direction _____ south _____ Force _____ 3 _____

Baromet. _____ Amt. of Clouds _____ 3 _____ State of Sea _____ S.

Weather _____

Direction and Force of Current. { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. 474 CC Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used 12' Tanner, _____

Time towing _____ h. 24 m.

Remarks: _____

Deck Officer: Mr. Hazard Recorder: H. W. Crider
Mr. B. H. H. _____

SOUNDING WIRE.

A. M. Down. Up. A. M.

FMS.

DREDGING CABLE.

A. M. Down. Up. A. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

A. just down

A. 22 11 11

A. 22 11 11

Dredge { No. _____ Date, _____, 19__

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns 262 Cor'n _____ Depth 262 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom gn. M.

Thermom. { Make 14 Cor'n { Instr. -1.7
 { No. 108015 { Stem.

Bottom Reading 56 Cor'd Temp. 53.3

Temp. Surf. { 82.0 Time 9.15a } Air { 82
 { 82.0 Time 9.20 }

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 0-1

Baromet. 29.9 Amt. of Clouds 3 State of Sea C

Weather bc.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality St. Johns

St. Johns, N. H. Sound, S. W. T. I.

✓ Position 8° 45' N. 175° 15' W.

Chart used: No. 4782 Ed'n _____

Drift: Direction N 24° E Distance 1.7

Depth of Haul _____

Apparatus and Rig used 1/2' Trawl

Time towing _____ h. _____ m.

Remarks: Time towing 1.7 h.

1.7 h. towing 1.7 h.

Deck Officer J. C. Smith Recorder St. Johns

Dredge } No. 5502 Date, 1907

Sdg. Mch. Reel Shot 3 lbs.

Turns 425 Cor'n Depth 425 fms.

Sdg. Cup - Agate Amt. Bot'm Sample 2 ounces

Character of Bottom gn. M. S.

Thermom. { Make No. 10615 Cor'n { Instr. Stem.

Bottom Reading 53.5° Cor'd Temp. 52.8

Temp. Surf. { 84° Time 1:20 } { 84° Time 2:15 } { Air }

Density: Surf. fms.

Wind: Direction Variable Force 2-3

Baromet. 29.83 Amt. of Clouds 7 State of Sea S

Weather bcz

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 12 N 16

Chart used: No. 4 Ed'n

Drift: Direction 88° Distance 1.0 mi

Depth of Haul bottom

Apparatus and Rig used 10

10

Time towing h. 20 1/2 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

P. M. Down. Up. 2 M.

FMS.

DREDGING CABLE.

P. M. Down. Up. 2 M.

| | | | | | | | | | | | | |
|---|----|----|---|----|----|--------------------|---|----|----|---|----|----|
| 1 | 05 | 10 | 1 | 12 | 30 | 0 | 1 | 05 | 10 | 1 | 12 | 30 |
| | 06 | 05 | | 13 | 00 | 100 | | 21 | 05 | | 24 | 00 |
| | 06 | 55 | | 12 | 10 | 200 | | 25 | 00 | | 21 | 00 |
| | 07 | 00 | | 11 | 25 | 300 | | 28 | 30 | | 18 | 10 |
| | 08 | 45 | | 10 | 30 | 400 | | 32 | 15 | | 15 | 20 |
| 1 | 09 | 05 | 1 | 10 | 05 | 425 500 | | 35 | 55 | | 12 | 30 |
| | | | | | | 600 | | 39 | 20 | | 09 | 20 |
| | | | | | | 700 | | 42 | 45 | | 06 | 15 |
| | | | | | | 750 800 | 1 | 44 | 10 | 2 | 04 | 30 |
| | | | | | | 900 | | | | | | |
| | | | | | | 1000 | | | | | | |
| | | | | | | 1100 | | | | | | |
| | | | | | | 1200 | | | | | | |
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| | | | | | | 4900 | | | | | | |

Dredge } No. 4508 Date, June 1, 1907
Hydrog. }

Sdg. Mch. Reel Shot Head lbs.

Turns 270 Cor'n Depth 270 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom fine M. s. fine S.

Thermom. { Make N. J. Instr. 7
No. 105015 Cor'n Stem.

Bottom Reading 540 Cor'd Temp. 53.3

Temp. Surf. { 83° Time 3:00 } Air { 64°
Time

Density: Surf. fms.

Wind: Direction Variable Force 2-1

Baromet. 30.3 Amt. of Clouds 5 State of Sea 6

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 24

Chart used: No. 4612 Ed'n

Drift: Direction Distance

Depth of Haul bottom

Apparatus and Rig used As before

Time towing h. m.

Remarks:

Deck Officer Recorder

| SOUNDING WIRE. | | | | | | FMS. | DREDGING CABLE. | | | | | |
|----------------|----|----|-----|----|----|------|-----------------|----|----|-----|----|----|
| P. M. Down. | | | Up. | | | | P. M. Down. | | | Up. | | |
| 2 | 50 | 15 | 2 | 56 | 20 | 0 | 2 | 11 | 40 | 1 | 55 | 45 |
| | 51 | 10 | | 56 | 05 | 100 | 3 | 02 | 40 | | 52 | 45 |
| | 52 | 05 | | 54 | 20 | 200 | | | | | 49 | 40 |
| 3 | 52 | 40 | | 53 | 45 | 300 | | 09 | 20 | | | |
| | | | | | | 400 | | 13 | 30 | | | |
| | | | | | | 475 | 3 | 16 | 30 | 3 | 42 | 30 |
| | | | | | | 500 | | | | | | |
| | | | | | | 600 | | | | | | |
| | | | | | | 700 | | | | | | |
| | | | | | | 800 | | | | | | |
| | | | | | | 900 | | | | | | |
| | | | | | | 1000 | | | | | | |
| | | | | | | 1100 | | | | | | |
| | | | | | | 1200 | | | | | | |
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| | | | | | | 1900 | | | | | | |
| | | | | | | 2000 | | | | | | |
| | | | | | | 2100 | | | | | | |
| | | | | | | 2200 | | | | | | |
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✓
Dredge } No. 121 Date, 7, 19

Sdg. Mch. Lucas Reel 2 Shot/Lead 55 lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample 2

Character of Bottom

Thermom. { Make No. 10 Cor'n { Instr. 7 Stem.

Bottom Reading 53.7 Cor'd Temp. 53.

Temp. Surf. { 82 Time 8:15 a.m. } Air { 79 }
Time

Density: Surf. fms.

Wind: Direction Variable Force 1

Baromet. 29.91 Amt. of Clouds 6 State of Sea 2

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction N 34 W Distance 1.4

Depth of Haul Bottle

Apparatus and Rig used As

Time towing h. 40 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. A.M.

| | |
|------|------|
| 057 | 0 |
| 057 | 100 |
| 08 | 200 |
| 07 | 300 |
| 8 06 | 400 |
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| 18 | | | |
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| 26 | | 06 | 20 |
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| 34 | 05 | | |
| 8 35 | | | |

S 61

S 61

S 7 0 10

Dredge ☒ No. 1 Date, , 19

Sdg. Mch. Reel Shot / Lead lbs.

Turns Cor'n Depth 423 fms.

Sdg. Cup Amt. Bot'm Sample 2 Currie

Character of Bottom

Thermom. { Make No. Cor'n { Instr. 57 Stem.

Bottom Reading 53.7 Cor'd Temp. 53.

Temp. Surf. { 84 Time 10:00 A } Air { 82

Density: Surf. fms.

Wind: Direction W.S.W. Force 2

Baromet. 29.91 Amt. of Clouds 1 State of Sea 0

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Javier Pt. S 53 W. Camp Anerton

Position 00 0

Chart used: No. Ed'n

Drift: Direction S. 44 W. Distance 1.6

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. 7 m.

Remarks: After towing 7 minutes accumulator registered 1/4 tons. Began to heave in.

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|-------------------|------|-------------|------|-------------------|-----|-------------|
| <i>A</i> M. Down. | Up. | <i>A</i> M. | | <i>A</i> M. Down. | Up. | <i>A</i> M. |
| | | | 0 | 10 | 01 | 40 11 02 10 |
| | | | 100 | | | |
| | | | 200 | 08 | 50 | 56 40 |
| 01 5 | 5 11 | | 300 | 12 | 10 | 53 30 |
| | | | 400 | 17 | 45 | 50 40 |
| | | | 500 | 20 | 30 | 47 10 |
| | | | 600 | 24 | 50 | 43 40 |
| | | | 700 | | | |
| | | | 800 | | | |
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Dredge } No. 5511 Date, , 1900
Hydrog.

Sdg. Mch. Lucas Reel Shot } 35 lbs.
Leads

Turns Cor'n Depth 410 fms.

Sdg. Cup Amt. Bot'm Sample 203

Character of Bottom

Thermom. { Make No. Cor'n { Instr. 7
Stem.

Bottom Reading Cor'd Temp. 63.

Temp. Surf. { 65 Time 12:16 } Air { 87
66 Time 7:12 } 89.

Density: Surf. fms.

Wind: Direction Calm Force 0

Baromet. 30.3 Amt. of Clouds 1 State of Sea

Weather Bx.

Direction and Force of Current { Surface
Bottom

Tide

General Locality N of San Juan, P.R.

Chart used: No. 4613 Ed'n

Position 8° 5' 20" N - 153° 57' 00" W

Drift: Direction N 30 E Distance 1.9

Depth of Haul Bottom

Apparatus and Rig used T.S. beam trawl

Time towing h. 30 m.

Remarks:

Deck Officer Recorder

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|-------------------|-----|-------------|------|-------------------|-----|-------------|
| <i>A</i> M. Down. | Up. | <i>A</i> M. | | <i>A</i> M. Down. | Up. | <i>P</i> M. |
| | | | 0 | | | |
| | | | 100 | | | |
| 44 | 10 | 49 | 200 | 12 | 00 | 53 |
| 45 | 15 | 48 | 300 | | 05 | 50 |
| | | | 400 | | | |
| | | | 500 | | | |
| | | | 600 | | 15 | 41 |
| | | | 700 | 12 | 18 | 38 |
| | | | 800 | | | |
| | | | 900 | | | |
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Dredge } No. 10805 Date, 1912

Sdg. Mch. Reel Shot lbs.

Turns 445 Cor'n Depth 445 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom gy S

Thermom. { Make No. 10805 Cor'n { Instr. Stem.

Bottom Reading 53.50 Cor'd Temp. 52.8

Temp. Surf. { 86 Time 88 Time Air

Density: Surf. fms.

Wind: Direction Calm Force 0

Baromet. 30.13 Amt. of Clouds 3 State of Sea S

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 8° 06' N. 120° 02' W.

Chart used: No. Ed'n

Drift: Direction N 74 E Distance 2.3

Depth of Haul Bottom

Apparatus and Rig used Hs before

Time towing 20 m.

Remarks:

Deck Officer Mr. Johnson Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

| | | | | | | |
|---|----|----|---|----|----|------|
| 1 | 04 | 55 | 1 | 13 | 20 | 0 |
| | 2 | 55 | | 17 | 30 | 100 |
| | 6 | 55 | | 58 | | 200 |
| | 07 | 25 | | 11 | 10 | 300 |
| | 08 | 25 | | 10 | 30 | 400 |
| 1 | 09 | 55 | 1 | 09 | 55 | 500 |
| | | | | | | 600 |
| | | | | | | 700 |
| | | | | | | 800 |
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|---|----|----|---|----|----|
| 1 | 14 | 50 | 2 | 29 | 30 |
| | 23 | 20 | | 26 | 30 |
| | 26 | 50 | | 23 | 35 |
| | 30 | 50 | | 20 | 40 |
| | 33 | 10 | | 17 | 40 |
| | 36 | 20 | | 14 | 45 |
| | 39 | 30 | | 11 | 45 |
| | 43 | 10 | | 08 | 50 |
| | 45 | 30 | 2 | 05 | 30 |

11/10/11
11/10/11

Dredge } No. 5112 Date, June 1, 1911

Sdg. Mch. Lucas Reel Shot Lead 5 lbs.

Turns 505 Cor'n — Depth 505 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 4.5

Character of Bottom gy. s. l.

Thermom. { Make TZ. Cor'n { Instr. 7
No. 108015 Stem.

Bottom Reading 505 Cor'd Temp. 52.1

Temp. Surf. { 85° Time 3:33 } Air { 84.5°
Time 7:42 }

Density: Surf. — fms. —

Wind: Direction Calm Force 1

Baromet. 29.80 Amt. of Clouds 6 State of Sea 1

Weather B. p.

Direction and Force of Current { Surface —
Bottom —

Tide —

General Locality U. S. Hydrog.

Position 34° 45' N. 121° 42' W.

Chart used: No. 4613 Ed'n —

Drift: Direction S 83 E Distance 1.7 mi

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. 15 m.

Remarks: accumulator registered as high

h. 15 m.

h. 15 m.

h. 15 m.

h. 15 m.

h. 15 m.

h. 15 m.

h. 15 m.

h. 15 m.

h. 15 m.

h. 15 m.

h. 15 m.

h. 15 m.

Deck Officer 2. 6 Recorder 11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

0

100

200

300

400

500

600

700

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1100

1200

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Dredge } No. 1111 Date, , 19

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 697 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom M. S.

Thermom. { Make N 2 Cor'n { Instr. 57
No. Stem.

Bottom Reading Cor'd Temp. 52.3

Temp. Surf. { Time 8:10 AM } Air {
Time

Density: Surf. fms.

Wind: Direction N. by W. Force

Baromet. 29.83 Amt. of Clouds 2 State of Sea S

Weather bz

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 42 58 34

Chart used: No. 7 Ed'n

Drift: Direction N. 47 E Distance 3.0

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m.

Remarks: Net was f
beam.

Deck Officer Recorder

Kohongi

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

52 00 03 30

100

52 50 02 55

200

53 45 02 15

300

54 40 01 35

400

55 45 00 55

500

56 50 00 05

600

617 500

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1000

1100

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1300

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15 15

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25 20

41

20

28 30

38

25

31 40

35

20

Dredge ☒ Hydrog. No. _____ Date, _____, 19__

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 83 _____ Time 10:00 A } Air { 82 _____
 { 84 _____ Time 11:10 A } { 86 _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. 29.93 Amt. of Clouds 2 State of Sea S

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

San Juan Pt. A. _____

Position Lat. 8° 34' N

Chart used: No. 4613 Ed'n _____

Drift: Direction S 20 W. Distance 1.6

Depth of Haul Bottom

Apparatus and Rig used 12' _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____

Recorder H. W. Crider

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | | |
|----------------|-----|----|------|-----------------|-----|----|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. | |
| | | | 0 | 10 | 02 | 10 | 11 |
| | | | 100 | | 06 | 10 | |
| | | | 200 | | 10 | 15 | |
| | | | 300 | | 13 | 45 | |
| | | | 400 | | 16 | 50 | |
| | | | 500 | | 19 | 30 | |
| | | | 600 | | | | |
| | | | 700 | | 26 | 00 | |
| | | | 800 | | 29 | 25 | |
| | | | 900 | | 32 | 25 | |
| | | | 1000 | | 35 | 50 | |
| | | | 1100 | | 38 | 50 | |
| | | | 1200 | 10 | 41 | 45 | 11 |
| | | | 1300 | | | | |
| | | | 1400 | | | | |
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Dredge } No. 51 Date, Aug 10, 1900
Hydrog. }

Sdg. Mch. Lucas Reel L Shot 35 lbs.

Turns 175 Cor'n — Depth 175 fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom fine sand

Thermom. { Make W. J. Cor'n { Instr. -1.7
No. 108015 Stem. —

Bottom Reading 500 Cor'd Temp. 54.0

Temp. Surf. { 85.0 Time 10:42 A Air { 86.5
Time 10:42 A

Density: Surf. — fms. —

Wind: Direction West Force 1-2

Baromet. 29.8 Amt. of Clouds 0 State of Sea —

Weather —

Direction and Force of Current { Surface —
Bottom —

Tide —

General Locality off Wilmington, S.E. of Cape Fear

Position 36° 00' N. 123° 20' W.

Chart used: No. 1125 Ed'n Oct 1900

Drift: Direction — Distance —

Depth of Haul Bottom

Apparatus and Rig used 12' beam trawl

1 wing wt.; 1 tail wt.

Time towing — h. 20 m.

Remarks: —

Deck Officer W. J. Fotherman Recorder —

SOUNDING WIRE.

FMS.

DREDGING CABLE.

| SOUNDING WIRE. | | |
|----------------|---------|-----|
| M. Down. | Up. | M. |
| 9 55 10 | 9 57 45 | |
| 56 10 | 58 45 | |
| 9 52 50 | 9 57 50 | 175 |

| DREDGING CABLE. | | |
|-----------------|----------|----|
| M. Down. | Up. | M. |
| 10 55 10 | 10 57 10 | |
| 10 56 10 | 10 58 10 | |
| 10 57 10 | 10 59 10 | |
| 10 58 10 | 10 59 10 | |

| | | |
|---------|---------|-----|
| 9 55 10 | 9 57 45 | |
| 56 10 | 58 45 | |
| 9 52 50 | 9 57 50 | 175 |

175

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3800

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Dredge } No. 551 Date, 19

Sdg. Mch. Reel Shot/Lead lbs.

Turns 169 Cor'n Depth 169 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. 105 Cor'n { Instr. Stem.

Bottom Reading 550 Cor'd Temp. 54.3

Temp. Surf. { 85 Time 11:21 a. } Air { 83 Time 11:40 a. }

Density: Surf. fms.

Wind: Direction West Force 2

Baromet. 29.75 Amt. of Clouds 3 State of Sea

Weather bcs.

Direction and Force of Current { Surface Bottom

Tide

General Locality As before

Position 36° 1' - 22° 22' 44"

Chart used: No. 4723 Ed'n

Drift: Direction S 50 E Distance 1.1 m.

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing h. 1 m.

Remarks:

Deck Officer Recorder

| SOUNDING WIRE. | | | | FMS. | DREDGING CABLE. | | | |
|----------------|----|----------|-------|------|-----------------|----|----------|----|
| a.M. Down. | | Up. a.M. | | | a.M. Down. | | Up. a.M. | |
| 10 58 | 45 | 11 03 | 00 | 0 | 11 07 | 15 | 11 48 | 10 |
| 59 | 40 | | 02 05 | 100 | 11 20 | | 45 | 15 |
| 11 00 | 20 | 11 01 | 25 | 200 | 14 40 | | 42 | 15 |
| | | | | 300 | 20 00 | | 39 | 20 |
| | | | | 310 | 11 20 | 40 | 11 38 | 40 |
| | | | | 400 | | | | |
| | | | | 500 | | | | |
| | | | | 600 | | | | |
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| | | | | 4400 | | | | |
| | | | | 4500 | | | | |
| | | | | 4600 | | | | |
| | | | | 4700 | | | | |
| | | | | 4800 | | | | |
| | | | | 4900 | | | | |

61

Tagolo Pt. L. Sp3 M

10.5 m

Tagolo Pt L Sp3 M

10.5 m

Dredge } No. 5518 Date, August 9, 1909
Hydrog.

Sdg. Mch. Lucas Reel Lucas Shot/Lead 35 lbs.

Turns 200 Cor'n Depth 200 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 3.02

Character of Bottom gy. m.; glob.

Thermom. { Make H. 2. Cor'n { Instr. 77
No. 108013 Stem.

Bottom Reading 54.7° Cor'd Temp. 54.

Temp. Surf. { 85° Time 12:45 } Air { 83.5°
85° Time 1:20 } 83°

Density: Surf. fms.

Wind: Direction Variable Force 3

Baromet. 29.92 Amt. of Clouds 5 State of Sea 2

Weather bc.

Direction and Force of Current { Surface
Bottom

Tide

General Locality N of Mindanao Sof Negros

Int Silla, S 12 W Silla (N) 65 N

Position 8° 48' N 123° 31' E

Chart used: No. 4723 Ed'n

Drift: Direction S 9 E Distance 1.2

Depth of Haul Bottom

Apparatus and Rig used 12' Trawl, 2 glass

floats, 3 wing weights, 1 tail weight.

Time towing h. 20 m.

Remarks:

Deck Officer Mr. Hazard Recorder C. E. R. Long

SOUNDING WIRE.

FMS.

DREDGING CABLE.

P. M. Down. Up. P. M.

P. M. Down. Up. P. M.

12 34 15 12 39 05
 35 10 38 00
 12 36 00 12 37 00

0
 100
 200
 300
 350 400

12 41 20 1 29 00
 45 15 26 00
 48 35 20 20
 52 20 17 20
 12 54 40 1 15 20

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Tagolo Pt Lt S 64 W
 8.7 m



$$x^2 + 40000 = 160000$$

$$x^2 = 120000$$

$$x = \sqrt{120000}$$

$$\sqrt{120000} = 346.41$$

$$\frac{120000}{346.41}$$

$$346.41$$

$$1.6$$

$$2$$

$$1.6 \times 2 = 3.2$$

$$58.75$$

$$75 - 16.25$$

$$19.5$$